Number 1 713 ((yarn adj2 feeder) (weaving adj2	
2 21 (((yarn adj2 feeder) (weaving adj2 machine)) and motor) and buffer US-PGPUB 18:16 318/\$ccls. US-PGPUB US-PAT; 2004/04/15 4 48426 318/\$.ccls. US-PGPUB US-PAT; 2004/04/15 5 16 (((yarn adj2 feeder) (weaving adj2 machine)) and motor) and 318/\$.ccls. US-PGPUB 18:17 6 14 (((yarn adj2 feeder) (weaving adj2 machine)) and motor) and 318/\$.ccls. US-PGPUB 18:17 7 ((((yarn adj2 feeder) (weaving adj2 machine)) and motor) and buffer) 8 103 (PM adj2 motor) (permanent adj2 magnet adj2 motor) adj2 motor) (PM adj2 motor) (permanent adj2 magnet adj2 motor) and (plurality adj3 motor) US-PGPUB 18:19 9 5170 318/34-113.ccls. US-PGPUB US-PGPUB 18:23 10 372 318/625.ccls. US-PGPUB US-PGPUB 18:23 11 5454 318/34-113.ccls. 318/625.ccls. US-PGPUB 18:23 12 37 (318/34-113.ccls. 318/625.ccls. US-PGPUB 18:23 12 37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 US-PGPUB 18:23 13 1 318/625.ccls. and ("dc" adj2 bus) US-PAT; 2004/04/15 US-PGPUB 18:25 14 43 318/625.ccls. and (weaving yarn sewing US-PAT; 2004/04/15 US-PGPUB 18:25 15 2004/04/15 US-PGPUB 18:25 16 (((yarn adj2 bus) US-PAT; 2004/04/15 US-PGPUB 18:26) US-PAT; 2004/04/15 US-PGPUB 18:25 17 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 US-PGPUB 18:25 18 18 18:16 US-PGPUB 18:26	
Machine ) and motor) and buffer   US-PGPUB   18:16   USPAT;   2004/04/15   US-PGPUB   18:17   US-PGPUB   USPAT;   2004/04/15   USPAT;   US-PGPUB   USPAT;   US-PGPUB   USPAT;   US-PGPUB   USPAT;   US-PGPUB   USPAT;   USPAT;   2004/04/15   USPAT;   USPAT;   USPAT;   2004/04/15   USPAT;   US	
3	, 
48426 318/\$.ccls.  16 (((yarn adj2 feeder) (weaving adj2 uspAT; 2004/04/15 uspAT; 20	, 1
16	
16	
6       14       ((((yarn adj2 feeder) (weaving adj2 machine)) and motor) and 318/\$.ccls.) not ((((yarn adj2 feeder) (weaving adj2 machine)) and motor) and 318/\$.ccls.) not ((((yarn adj2 feeder) (weaving adj2 machine)) and motor) and buffer)       US-PGPUB       18:17         7       3277       PM adj2 motor) (permanent adj2 magnet adj2 motor)       USPAT;       2004/04/15         8       103       (PM adj2 motor) (permanent adj2 magnet adj2 motor)       USPAT;       2004/04/15         9       5170       318/34-113.ccls.       USPAT;       2004/04/15         10       372       318/625.ccls.       USPAT;       2004/04/15         11       5454       318/34-113.ccls. 318/625.ccls.       USPAT;       2004/04/15         12       37       (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 motor)       USPAT;       2004/04/15         13       1       318/625.ccls. and ("dc" adj2 bus)       USPAT;       2004/04/15         14       43       318/625.ccls. and (weaving yarn sewing robot)       USPAT;       2004/04/15         18:26       18:26       USPAT;       2004/04/15         18:26       18:26       USPAT;       2004/04/15         19       18:26       18:26       18:26	,
6       14       ((((yarn adj2 feeder) (weaving adj2 machine)) and motor) and 318/\$.ccls.) not ((((yarn adj2 feeder) (weaving adj2 machine)) and motor) and buffer)       USPAT; US-PGPUB       2004/04/15         7       3277       PM adj2 motor) (permanent adj2 magnet adj2 magnet adj2 motor)       USPAT; US-PGPUB       2004/04/15         8       103 (PM adj2 motor) (permanent adj2 magnet adj2 motor)       USPAT; US-PGPUB       2004/04/15         9       5170 318/34-113.ccls.       USPAT; US-PGPUB       18:23         10       372 318/625.ccls.       USPAT; 2004/04/15       2004/04/15         11       5454 318/34-113.ccls. 318/625.ccls.       USPAT; 2004/04/15       2004/04/15         12       37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 motor)       USPAT; 2004/04/15       2004/04/15         13       1 318/625.ccls. and ("dc" adj2 bus)       USPAT; 2004/04/15       2004/04/15         14       43 318/625.ccls. and (weaving yarn sewing robot)       USPAT; 2004/04/15       2004/04/15	
machine)       and motor)       and 318/\$.ccls.)       not ((((yarn adj2 feeder) (weaving adj2 machine))       uspat;       2004/04/15         7       3277       PM adj2 motor)       (permanent adj2 magnet adj2 magnet adj2 motor)       uspat;       2004/04/15         8       103       (PM adj2 motor)       (permanent adj2 magnet adj2 motor)       uspat;       2004/04/15         9       5170       318/34-113.ccls.       uspat;       2004/04/15         10       372       318/625.ccls.       uspat;       2004/04/15         11       5454       318/34-113.ccls.       318/625.ccls.       uspat;       2004/04/15         12       37       (318/34-113.ccls.       318/625.ccls.) and (PM adj2 motor)       uspat;       2004/04/15         12       37       (318/34-113.ccls.       318/625.ccls.) and (PM adj2 magnet adj2       uspat;       2004/04/15         13       1       318/625.ccls. and ("dc" adj2 bus)       uspat;       2004/04/15         14       43       318/625.ccls. and (weaving yarn sewing robot)       uspat;       2004/04/15	•
(((((yarn adj2 feeder) (weaving adj2 machine)) and motor) and buffer)       USPAT;       2004/04/15         7       3277 PM adj2 motor) (permanent adj2 magnet adj2 motor       USPAT;       2004/04/15         8       103 (PM adj2 motor) (permanent adj2 magnet adj2 motor)       USPAT;       2004/04/15         9       5170 318/34-113.ccls.       USPAT;       2004/04/15         10       372 318/625.ccls.       USPAT;       2004/04/15         11       5454 318/34-113.ccls. 318/625.ccls.       USPAT;       2004/04/15         12       37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 motor)       USPAT;       2004/04/15         13       1 318/625.ccls. and ("dc" adj2 bus)       USPAT;       2004/04/15         14       43 318/625.ccls. and (weaving yarn sewing robot)       USPAT;       2004/04/15	
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adj2 motor (PM adj2 motor) (permanent adj2 magnet adj2 motor) uspAT; 2004/04/15 adj2 motor) and (plurality adj3 motor) uspAT; 2004/04/15  10 372 318/625.ccls.  11 5454 318/34-113.ccls. 318/625.ccls.  12 37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 motor) adj2 motor) (permanent adj2 magnet adj2 uspAT; 2004/04/15 adj2 motor) (permanent adj2 bus) uspAT; 2004/04/15	
8 103 (PM adj2 motor) (permanent adj2 magnet adj2 motor) us-pgPUB 18:23 9 5170 318/34-113.ccls. 10 372 318/625.ccls. 11 5454 318/34-113.ccls. 318/625.ccls. 12 37 (318/34-113.ccls. 318/625.ccls.) uspAT; us-pgPUB 18:23 12 37 (318/34-113.ccls. 318/625.ccls.) uspAT; us-pgPUB 18:23 18:23 uspAT; uspAT	)
adj2 motor) and (plurality adj3 motor)  318/34-113.ccls.  10	:
9 5170 318/34-113.ccls. USPAT; US-PGPUB 18:23 10 372 318/625.ccls. USPAT; US-PGPUB 18:23 11 5454 318/34-113.ccls. 318/625.ccls. USPAT; US-PGPUB 18:23 12 37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 USPAT; US-PGPUB 18:25 13 1 318/625.ccls. and ("dc" adj2 bus) USPAT; US-PGPUB 18:26 14 43 318/625.ccls. and (weaving yarn sewing robot) USPAT; US-PGPUB 18:26	)
10 372 318/625.ccls. US-PGPUB	
11 5454 318/34-113.ccls. 318/625.ccls. US-PGPUB US-PGPUB US-PGPUB 18:23  12 37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 US-PGPUB 18:25  13 1 318/625.ccls. and ("dc" adj2 bus) USPAT; US-PGPUB 18:26  14 43 318/625.ccls. and (weaving yarn sewing robot) USPAT; US-PGPUB 18:26	
11 5454 318/34-113.ccls. 318/625.ccls. USPAT; US-PGPUB 18:23 12 37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 US-PGPUB 18:25  13 1 318/625.ccls. and ("dc" adj2 bus) USPAT; US-PGPUB 18:26 14 43 318/625.ccls. and (weaving yarn sewing USPAT; US-PGPUB 18:26 15 18:26	•
12 37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 US-PGPUB USPAT; 2004/04/15 motor)  13 1 318/625.ccls. and ("dc" adj2 bus) US-PGPUB USPAT; 2004/04/15 US-PGPUB 18:26  14 43 318/625.ccls. and (weaving yarn sewing robot) USPAT; 2004/04/15 US-PGPUB 18:26	
12 37 (318/34-113.ccls. 318/625.ccls.) and (PM adj2 motor) (permanent adj2 magnet adj2 US-PGPUB 18:25 motor)  1 318/625.ccls. and ("dc" adj2 bus) USPAT; US-PGPUB 18:26  14 43 318/625.ccls. and (weaving yarn sewing robot) USPAT; US-PGPUB 18:26	<b>)</b>
adj2 motor) (permanent adj2 magnet adj2 US-PGPUB 18:25 motor)  1 318/625.ccls. and ("dc" adj2 bus) USPAT; 2004/04/15 US-PGPUB 18:26  14 43 318/625.ccls. and (weaving yarn sewing USPAT; 2004/04/15 robot) US-PGPUB 18:26	
13	
14 43 318/625.ccls. and (weaving yarn sewing US-PGPUB 18:26 2004/04/15 robot) US-PGPUB 18:26	
14 43 318/625.ccls. and (weaving yarn sewing USPAT; 2004/04/15 robot) US-PGPUB 18:26	<b>,</b>
robot) US-PGPUB 18:26	
20200/	)
robot)) not ((318/34-113.ccls. US-PGPUB   18:30	
318/625.ccls.) and (PM adj2 motor)	
(permanent adj2 magnet adj2 motor))	
71   318/34-113.ccls. and (weaving yarn sewing   USPAT;   2004/04/15   robot)   US-PGPUB   18:30	)
17 66 (318/34-113.ccls. and (weaving yarn USPAT; 2004/04/15	;
sewing robot)) not ((318/625.ccls. and US-PGPUB 18:37	
(weaving yarn sewing robot)) not	
((318/34-113.ccls. 318/625.ccls.) and (PM	
adj2 motor) (permanent adj2 magnet adj2 motor)))	
18 1 ("6153949").PN. USPAT; 2004/04/15	
US-PGPUB 18:40	
19 6 ("4860185"   "5185536"   "5229650"   USPAT 2004/04/15	5
"5631503"   "5650669"   "5784626").PN.   18:38	<u>.</u>
20 462 (power adj2 management) and (capacitor USPAT; 2004/04/15 (energy adj2 stor\$3)) and motor US-PGPUB 18:41	)
21 29 ((power adj2 management) and (capacitor USPAT; 2004/04/15	5
(energy adj2 stor\$3)) and motor) and US-PGPUB 18:42	-
(voltage adj2 converter)	
22 13 ("5513361"   "5625269"   "5687079"   USPAT 2004/04/15	5
"5825972"   "5848282"   "5881298"   18:42	
"5898288"   "5942866"   "6008603"   "6054823"   "6188189"   "6259172"	
"6285146").PN.	
23 3106 (voltage adj2 bus) and (capacitor (energy USPAT; 2004/04/15	5
adj2 stor\$3)) US-PGPUB 18:50	
24 433 ((voltage adj2 bus) and (capacitor USPAT; 2004/04/15	
(energy adj2 stor\$3))) and motors US-PGPUB 18:51 25 52 (((voltage adj2 bus) and (capacitor USPAT; 2004/04/15	_
(energy adj2 stor\$3))) and motors) and US-PGPUB 18:51	)
(voltage adj2 converter)	)

26	52	((((voltage adj2 bus) and (capacitor	USPAT;	2004/04/15
		(energy adj2 stor\$3))) and motors) and	US-PGPUB	18:58
		(voltage adj2 converter)) not		
		((318/34-113.ccls. and (weaving yarn		
		sewing robot)) not ((318/625.ccls. and		
		(weaving yarn sewing robot)) not		
		((318/34-113.ccls. 318/625.ccls.) and (PM	'	
		adj2 motor) (permanent adj2 magnet adj2		
		motor))))		
27	8	("5027051"   "5318142"   "5430364"	USPAT	2004/04/15
		"5567993"   "5568041"   "5677617"		18:54
		"5757635"   "5769877").PN.		
28	0	(energy adj2 buffer) and (capacitor	USPAT;	2004/04/15
		battery) and (voltage adj2 bus) and	US-PGPUB	19:00
		(voltage adj2 converter) and motor		
29	4	(energy adj2 buffer) and (capacitor	USPAT;	2004/04/15
		battery) and (voltage adj2 bus) and motor	US-PGPUB	19:00